

In the Abstract:

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ABSTRACT

A method of generating logic control units for railroad station-based vital computer apparatuses, i.e. in railroad station system control units comprising at least one vital computer which, on the basis of a control program operating in combination with a logic unit, sends state switching controls to yard elements and receives state feedback and/or diagnostic signals from the yard elements. The logic unit is generated automatically by a program, based on the surrounding conditions as defined by the station diagram and by a state table, the logic unit being a network of circuits with components operating according to Boolean logic functions and appropriate structure in compliance with the station diagram and with the state table. The logic control unit may be a program which includes algorithms composed of Boolean logic functions, which operate like networks of Boolean logic circuits. ~~A step for checking the correctness of the automatically generated logic unit is provided, which includes a plurality of steps to check for structural differences.~~